

MATERIAL SAFETY DATA SHEET

MSDS NUMBER 5.120-6 PAGE 1 97367 (4-85) 24 HOUR EMERGENCY ASSISTANCE GENERAL MSDS ASSISTANCE **BE SAFE** SHELL: 713-473-9461 CHEMTREC: 800-424-9300 SHELL: 713-241-4819 READ OUR PRODUCT SAFETY INFORMATION RESCHINTY LEAST O SLIGHT - 1 MODERATE - 2 AND HAZARD RATING PASS IT ON HIGH . 3 EXTREME - 4 PROGOTTERABILITERA REGUMES IT; #For acute and chronic health effects refer to the discussion in Section III SECTION I NAME PRODUCT | ISOPROPYL ALCOHOL CHEMICAL IPA, ISOPROPANOL, 2-PROPANUL NAME CHEMICAL ALSOHOL FAMILY SHELL 31105 CODE SECTION 11-A PRODUCT/INGREDIENT COMPOSITION CAS NUMBER PERCENT ISOPROPYL ALCOHOL 67-63-0 * 14. 35. 医骶骨髓 化二氯甲基苯甲基 Proceedings of the Company of the Co SECTION II-B ACUTE TOXICITY DATA MO. ACUTE DRAL LD50 ACUTE DERMAL LDSO ACUTE INHALATION LCSO

5840 MG/KG (RAT) 13000 MG/KG (RABBIT) 12000 PPM (RAT) B HRS SECTION AND PROPERTY OF A SECTION AND A SECTION ASSESSMENT OF A SECTION ASSESSMENT AND A SECTION ASSESSMENT AS SECTION III HEALTH INFORMATION

THE HEALTH PEFFETS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (25 CFR 1910.1200).

EYE CONTACT MODERATELY IRRITATING TO THE EYES.

SKIN CONTACT

MILDLY IRRITATING TO THE SKIN

INHALATION MAY CAUSE MILD IRRITATION TO THE NOSE, THROAT AND RESPIRATORY TRACT AND MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. A 40 10 10 14 14 15

INGESTION GENERALLY CONSIDERED TO HAVE A LOW ORDER OF ACUTE ORAL TOXICITY.

SIGNS AND SYMPTOMS IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS DEPRESSION MAY BE EVIDENCED BY GIDDINESS. HEADACHE, DIZZINESS, AND NAUSEA.

AGGRAVATED MEDICAL CONDITIONS PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO IPA:

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PRODUCT NAME: ISOPROPYL ALCOHOL

OTHER HEALTH EFFECTS

INTENTIONAL ABUSE, MISUSE OR OTHER MASSIVE EXPOSURE TO IPA MAY RESULT IN DIFFICULT BREATHING NAUSEA VOMITING AND HEADACHE ACCOMPANIED BY VARIOUS DEGREES OF CNS DEPRESSION. COMA AND/OR DEATH

SEE SECTION VI FOR ADDITIONAL HEALTH INFORMATION.

OCCUPATIONAL EXPOSURE LIMITS SECTION IV ACGIH OSHA PEL/CEILING PEL/TWA TLV/TWA TLV/STEL 500 PPM 400 PPM 50% ODOR RECOGNITION THRESHOLD IS 7.5 PPM

SECTION LINE TERST ATU PROJUDERES

EYE CONTACT

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN GET MEDICAL ATTENTION.

SKIN CONTACT

FLUSH SKIN WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION

REMOVE VICTIM TO FRESH AIR AND PROVIDE DXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING BOCC (2 TABLESPOONS) SYRUP OF IPECAC.* IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSED OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

NOTE TO PHYSICIAN

*IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF TPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX. CONVULSIONS OR UNCONSCIDUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

SUPPLEMENTAL HEALTH INFORMATION

IN RATE: 1) LIVER AND KIDNEY ENLARGEMENT HAS BEEN SEEN AT LEVELS >6250 PPM IN DRINKING WATER. 2) AKEMIA MAS REEN SEEM IT 12500 AND 25000 PPM IN DRINKING WATER

BOILING POINT: 180 SPECIFIC GRAVITY: 0.79

(DEG F) (H20=1)

MELTING POINT: - 127 SOLUBILITY: COMPLETE (DEG F) (IN WATER)

EVAPORATION RATE (N-BUTYL ACETATE # 1): 1.4

VAPOR PRESSURE: 33 € 68 DEG F (MM HG)

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VAPOR DENSITY: 2:1 (AIR=1)

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PRODUCT NAME: ISOPROPYL ALCOHOL

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APPEARANCE AND ODOR: COLORLESS, MOBILE LIQUID. MILD ODOR.

SECTION VIII

FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD:

53 DEG F -TCC

FLAMMABLE LIMITS /% VOLUME IN AIR

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STRIFTED VAN DAME ON COUNTY OF THE

[1981] [1982] [

LOWER: 2 UPPER: 12

EXTINGUISHING MEDIA

的复数的复数的复数 医水管多管管 USE WATER FOG. "ALCOHOL" FOAM, DRY CHEMICAL OR CD2.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS). INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER. · 图 国内权力 · 通知 的 新维斯克 · 克拉克 不断

UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLARE CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

·自由: 网络白色碱 白眉素 原始的特殊的联系

SECTION IX

REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, SPARKS, FLAME: AND CONTACT WITH STRONG OXIDIZING AGENTS: *** DO NOT STORE OR HANDEE IN ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120 DEG. F.

MAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION Y

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

and the control of t The control of IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910, 134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

AVOID CONTACT WITH EYES. WEAR CHEMICAL GOGGLES IF THERE TO LIKELIHOOD OF CONTACT PITH EYES. AVOID PROLONGED OF REPEATED CONTACT WITH SAIN. YEAR CHEMICAL-RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT ..

ADDITIONAL PROTECTIVE MEASURES.

TIEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY NITRILE, NEOPRENE AND NATURAL RUBBER GLOVES. USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.

SECTION XI

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

WARNING. FLAMMABLE. ELIMINATE ALL IGNITION SQUECES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. *** LARGE SPILLS *** EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS: CONTAIN RUN-OFF, REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. *** SMALL SPILLS *** TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

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WASTE DISPOSAL

UNDER EPA-RACA (40 CFR 261.21), IF THIS PRODUCT BECOMES A WASTE MATERIAL, IT WOULD BE IGNITABLE HAZARDOUS WASTE, HAZARDOUS WASTE NUMBER DOOT. REFER TO LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL. 1888 (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884)

SECTION XII

SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY.

IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHTS, CIGARETIES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Andrews and the street of the

DO HET STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPONIUM TO THE TOTAL TO THE

SECTION XIII

TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION: FLAMMABLE LIQUID D.D.T PROPER SHIPPING NAME: ISOPPOPANOL

DTHER REQUIREMENTS:

DOT ID NUMBER = UN 1219 - GUIDE SHEET 26

SECTION XIV OTHER REGULATORY CONTROLS

THIS PRODUCT IS LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, SHELL MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SHELL ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

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DATE PREPARED: OCTOBER 07, 1985 BE CARE

BE SAFE

READ OUR PRODUCT SAFETY INFORMATION ... AND PASS IT ON (PRODUCT LIABILITY LAW) REQUIRES IT)

SHELL DIL COMPANY PRODUCT SAFETY AND COMPLIANCE P. J. BOX 4320 HOUSTON, TX 77210

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